

The Lepidoptera of the Cairngorms National Nature Reserve

By E. A. M. MACALPINE *
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SATYRIDAE

Erebia epiphron (Knoch). — seen only around Loch an Eilein though previously recorded over a wide area. *E. aethiops* (Esper). — K; common from the Lairig round to Achlean but not seen above 360 m. *Maniola jurtina* (L.). — K; Loch an Eilein, Lochan Gorm and Achlean. *Coenonympha pamphilus* (L.). — K; Cairngorm Club Footbridge, Loch an Eilein, Loch Gamhna, Achlean, Carn Ban Mor — 950 m. — and Glen Feshie to the Eidart. *C. tullia* (Müll.). — common over suitable areas from the Lairig round to Glen Feshie and the Eidart; strangely, none was found in the Lairig in 1976 but good numbers in 1977.

LASIOCAMPIDAE

Trichiura crataegi (L.). — A; B; C; E; F; H; K; larvae at A. *Lasiocampa quercus callunae* (Palmer). — larvae found almost everywhere in the heather from the Lairig right round to Glen Feshie and the Eidart; strangely none was found in Gleann Einich south of Einich Gate. *Macrothylacia rubi* (L.). — K; a few larvae at Loch an Eilein and one at Achlean.

SATURNIIDAE

Saturnia pavonia (L.). — K; day-flying round Loch an Eilein and Loch Gamhna; larvae at E, the Sinclair Hut and in Glen Feshie to the Eidart; Glen Derry in 1970 and '71, E.C.P.-C.

ENDROMIDAE

Endromis versicolora (L.). — K.

DREPANIDAE

Falcaria lacertinaria (L.). — A. *Drepana falcataria* L.). — A; K.

THYATIRIDAE

Tethea or (D. & S.). — K; larvae on aspen at A, E and in Glen Feshie NN/8888. *Ochropacha duplaris* (L.). — A; B; C; G; K. *Achlya flavicornis* (Tutt). — A; H; K.

GEOMETRIDAE

Archiearis parthenias (L.). — day-flying at Loch an Eilein. *Geometra papilionaria* (L.). — A; K. *Cyclophora albipunctata* (Hufn.). — K; *Scopula ternata* (Schrank). — A; B; E; H; day-flying at A, B, at Achlean, Gleann Einich to 500 m and in the Lairig; Glen Derry in 1970, E.C.P.-C. *Idaea aversata* (L.). — A; C; K. *I. straminata* (Borkh.). — four individuals at C, A, E, H on 5, 10, 13, 16.viii.77 respectively and one day-flying above Loch an Eilein, 13.vii.76. *Orthonama vittata* (Borkh.). — K; *Xanthorhoe designata* (Hufn.). — A; B; C; K. *X. munitata* (Hübner). — B; C; D; E; F; G; day-flying at Achlean/Coire Garbhach. *X. spadicearia* (D. & S.). — A; B; C; E; H; K; day-flying at A and Achlean. *X. montanata* (D. & S.). — A;

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B; C; D; E; F; G; H; K; day-flying from the Lairig round to Achlean. *X. fluctata* (L.). — A; B; F; H; K. *Scotopteryx chenopodiata* (L.). — H. *S. mucronata scotica* (Cock.). — K; day-flying in Gleann Einich to 500 m and at Achlean. *S. luridata plumbaria* (Fab.). — F; day-flying in the Lairig. *Epirrhoe tristata* (L.). — recorded by Harper, ? date. *E. alternata* (Müller) — C; H; K; day-flying in the Lairig; Glen Derry in 1970, E.C.P.-C. *Camptogramma bilineata* (L.). — G. *Entephria flavicinctata* (Hüb.). — one day-flying by waterfall in Glen Feshie, NN/8889, on 9.ix.77. *E. caesiata* (D. & S.). — A; B; C; D; E; F; G; H; K; larvae on bilberry at E and H; seen day-flying in nearly all areas, including Loch Avon, Loch Etchachan and Glen Luibeg; maximum altitude: 1,030 m above Loch Etchachan. *Anticlea badiata* (D. & S.). — A; H; K. *A. derivata* (D. & S.). — K; *Lampropteryx suffumata* (D. & S.). — A; B; C; D; E; G; H; day-flying around Loch Einich at 500 m. *Cosmorhoe ocellata* (L.). — A; C; E; G; H; K. *Coenotephria salicata* (Curtis). — day-flying at the Sinclair Hut and in Coire Garbhloch. *Eulithis testata* (L.). — A; B; C; E; F; G; H; K; larvae on ling at E and Coire Garbhloch; day-flying records at E and Achlean. *E. populata* (L.). — A; B; C; D; E; F; G; H; K; larvae on bilberry at D. E and Coire Garbhloch; day-flying records from nearly everywhere including Glen Luibeg; maximum altitude: 900 m plus above Loch Einich and at the edge of Coire Garbhloch; Glen Derry in 1970 and '71, E.C.P.-C. *E. pyraliata* (D. & S.). — K. *Ecliptopera silaceata* (D. & S.). — K. *Chloroclysta miata* (L.). — A; B; C; F; G; H; larvae on sallow at B. *C. citrata* (L.). — A; B; C; D; E; F; G; H; K; day-flying records from B and E. *C. truncata* (Hufn.). — A; B; C; D; E; F; G; H; K; day-flying records from A, B, E, in the Lairig and from Glen Feshie; Glen Derry in 1970, E.C.P.-C. *Plemyria rubiginata* (D. & S.). — B; K; larva on birch at A. *Thera firmata* (Hüb.). — A; B; C; E; F; G; K; larva on pine at Allt Ruadh; day-flying at A. *T. cognata* (Thun.). — A; B; C; E; F; H; K. *T. juniperata* (L.). — recorded by Harper, ? date. *Electrophaes corylata* (Thun.). — C; F; G; K; larvae on alder at Loch an Eilein; day-flying at A, B and in Coire Garbhloch. *Colostygia olivata* (D. & S.). — A; C. *C. multistrigaria* (Haw.). — A; B; H; K. *C. pectinataria* (Knoch). — A; B; C; E; F; G; H; K; day-flying at A and in Coire Garbhloch. *Hydriomena furcata* (Thun.). — A; B; C; E; F; G; H; K; larvae on bilberry and ling at A, C, E; day-flying in the Lairig at tree-line. *H. impluviata* (D. & S.). — A; C; K. *Epirrita autumnata* (Bork.). — B; K; *E. filigrammaria* (H.-S.). — two at K; 23 and 24.viii.76; one at B, 26.viii.76; one at A, 26.viii.77; larvae on bilberry at E, 22.v.76. *Operophtera brumata* (L.). — larvae on birch at E. *O. fagata* (Scharf.). — day-flying below Creag Follais; larvae at A on cherry. *Perizome minorata* (Steph.). — only one specimen: day-flying between Achlean and Coire Garbhloch, 12.vii.76. *P. blandiata* (D. & S.). — K. *P. albulata* (D. & S.). — K; day-flying at H. *P. didymata* (L.). — A; B; C; D; E; F; G; H; K; recorded from nearly

everywhere to the tree-line and above, including Loch Avon; larvae in bilberry at E, F; E.C.P.-C. found a pupa on Braeriach summit in 1955 and also recorded it from Glen Derry in 1971. *Eupithecia tenuiata* (Hübner). — K. *E. pulchellata* (Steph.). — A; C; K. *E. intricata* (Wnuk.). — A; B; C; E; K. *E. satyrata* (Hübner). — B; C; D; E; F; K; day-flying at B, D, E, F and at Loch Avon; seen quite commonly up to 900 m; larvae at A on ling. *E. absinthiata* (Clerck). — F; K. *E. goossensiata* (Mabille). — A; C. *E. vulgata* (Haw.). — A; B; C; E; G; H; K; day-flying records from Achlean and above on Eilein. *E. tripunctaria* (H.-S.). — A. *E. subfuscata* (Haw.). — K. *E. icterata* (Haw.). — K. *E. indigata* (Hübner). — A; B; C; E; F; H; day-flying records from B and Achlean. *E. nanata* (Hübner). — A; B; C; D; E; F; G; H; K; day-flying records from nearly all areas including Loch Avon and at 1,150 on the south side of Cairn Gorm. *E. abbreviata* (Steph.). — K. *E. pusillata* (D. & S.). — A; B; C; D; E; F; G; H; K; day-flying records from D and in the Lairig. *E. tantillaria* (Bois.). — K. *Chloroclystis rectangulata* (L.). — K. *Gymnoscelis rufifasciata* (Haw.). — day-flying at F and in Coire Garbhloch. *Carsia sororiata anglica* (Prout). — a few at K. 15th to 20.vii.76: one at A, 19.viii.77; one at F, 21.viii.77; Glen Derry in 1971. E.C.P.-C. *Aplocera plagiata* (L.). — A; G. *Odezia atrata* (L.). — day-flying at Loch an Eilein and in Glen Feshie. *Venusia cambrica* (Curtis). — A; K. *Lobophora halterata* (Hufn.). — Larva on aspen at Loch an Eilein. *Trichopteryx carpinata* (Bork.). — B; C; G; H; K. *Semiothisa notata* (L.). — A; B. *S. liturata* (Clerck). — A; B; C; F; G; H; K; day-flying records from E, the Lairig and Achlean. *S. carbonaria* (Clerck). — only found between Achlean and Carn Ban Mor in a band at altitude 530 m-620 m. *S. brunneata* (Thun.). — 1976, in good numbers from 5.vii to 22.vii in Gleann Einich and the Lairig; 1977, in vast numbers in those two localities from 27.vii to 31.vii, n.b. I was not in the area in '77 until the 27th; isolated individuals at A and Sinclair Hut. *Opisthograptis luteolata* (L.). — A; K; day-flying at A. *Ennomos erosaria* (D. & S.). — K. *S. tetralunaria* (Hufn.). — A; B; K. *Odontopera bidentata* (Clerck). — A; B; K. *Crocallis elinguaris* (L.). — A; B; C; E; F; G; H; K; larvae on ling at A and C. *Apocheima pilosaria* (D. & S.). — K; larvae on cherry at A. *Lycia hirtaria* (Clerck). — A; H; K. *Biston betularia* (L.). — A; K. *Agriopsis aurantiaria* (Hübner). — larvae on birch at A and C. *A. marginaria* (Fab.). — larvae on cherry at A. *Erannis defoliaria* (Clerck). — K; larvae on cherry at A. *Alcis repandata* (L.). — A; B; C; D; E; F; G; H; K; day-flying at E, in the Lairig and in Coire Garbhloch. *Ectropis bistortata* (Goeze). — A; C; K. *Ematurga atomaria* (L.). — B; E; G; K; day-flying records from all heath land; found to 1,000 m at times; larvae at A on ling. *Bupalus piniaria* (L.). — A; B; C; E; F; G; H; K; found throughout the pines by day. *Cabera pusaria* (L.). — A; B; C; K. *C. exanthemata* (Scop.). — K. *Campaea margaritata* (L.). — A; C; E; F; G; K. *Hyaea fasciaria* (L.). — A; B; C; E; F; H; K; larva at H on pine. *Gnophos obfuscata*

(D. & S.). — A; B; E; F; G; H; K. *G. obscuratus* (D. & S.). — one at H on 9.viii.76. *Psodos coracina* (Esper). — in 1976 — 'wrong' year — the moth was out in good numbers on the Eastern Plateau but none was seen on the Braeriach side; in 1977 there were very good numbers on both plateaux; one isolated specimen seen at A by Sterling & Godfrey in 1977. *Dyscia fagaria* (Thun.). — A; B; G; K.

SPHINGIDAE

Laothoe populi (L.). — A; C; G; K; larvae on sallow at A and on aspen at E. *Deilephila elpenor* (L.). — K.

NOTODONTIDAE

Cerura vinula (L.). — K; larvae on sallow by Loch Gamhna. *Harpyia furcula* (Clerck). — A; K; larvae on sallow at E and near Loch an Eilein. *Notodonta dromedarius* (L.). — A; C; F; G; K; larvae on alder at B and F. *Eligmodonta ziczac* (L.). — K; larvae on sallow at B and E. *Pheosia gnoma* (Fab.). — A; B; C; E; F; G; K. *P. tremula* (Clerck). — K. *Ptilodon capucina* (L.). — A; C; F; G; K. *Odontosia carmelita* (Esper). — A; C; E; K.

LYMANTRIIDAE

Dasychira fascelina (L.). — A; C; K; larvae at C, E, G, in the Lairig, by the Allt Ruadh, at Achlean/Coire Garbhlach and in Glen Feshie to the Eidart. A very large percentage — 70% or more — of the larvae were parasitised.

ARCTIIDAE

Parasemia plantaginis (L.). — day-flying at B, in Glen Einich to 500 m, on the south side of Cairn Gorm at 1,150 m, in Coire Garbhlach and by the Allt Fhearnagan (between Achlean and Carn Ban Mor). *Arctia caja* (L.). — K. *Spilosoma luteum* (Hufn.) — K. *Phragmatobia fuliginosa* (L.). — E; F; larvae at A, by Allt Raudh and at Achlean; a pupa in Coire Garbhlach.

(To be continued)

PRACTICAL HINTS — SEPTEMBER

Hibernating butterflies. — During the autumn, butterflies such as the Comma, Large and Small Tortoiseshell and Peacock may be captured and bred and kept through the winter months in a state of hibernation. To do this successfully they should be confined in a wooden half tub with a piece of gauze fastened securely over it. At first it should be kept in a sunny position and the butterflies fed daily with a weak solution of honey, sugar and water on a wad of cotten wool placed on top of the gauze. As the days shorten they will gradually stop feeding. The tub should then be tilted over on its side and positioned with the gauze close up to a north facing wall where it can be left undisturbed till the following spring (LIPSCOMB).

September is a fine time for the moth hunter. Larvae abound, plenty of choice endemic species are on the wing and round every corner lurks the chance of a rare migrant. Early in the month should not be too late to attract the Heath Rustic (*Xestia agathina*) to the lamp and blank moments may